

...completed examining records

S4 5 RD (unique items)
?show files;ds;t/3,k/all
File 5: Biosis Previews(R) 1969-2002/Sep W1
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File 357: Derwent Biotech Res. 1982-2002/June W1
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 File 91:MANTIS(TM) 1880-2002/Oct
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 File 149:TGG Health&Wellness DB(SM) 1976-2002/Sep W1
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 File 444:New England Journal of Med. 1985-2002/Sep W2
 (c) 2002 Mass. Med. Soc.
 File 467:ExtraMED(tm) 2000/Dec
 (c) 2001 Informania Ltd.

Set	Items	Description
S1	5	AMIDITE? (S) ACETAL?
S2	4	RD (unique items)
S3	10	(ACETAL? OR POLYACETAL?) (S) CONJUGAT? (S) (NUCLEIC OR POL- YNUCLEOTIDE? OR OLIGONUCLEOTIDE?)
S4	5	RD (unique items)

Set	Items	Description
S1	5	AMIDITE? (S) ACETAL?
S2	4	RD (unique items)
S3	10	(ACETAL? OR POLYACETAL?) (S) CONJUGAT? (S) (NUCLEIC OR POLYNUCLEOTIDE? OR OLIGONUCLEOTIDE?)
S4	5	RD (unique items)

>>>KWIC option is not available in file(s): 41, 77, 399

4/3,K/1 (Item 1 from file: 5)
 DIALOG(R)File 5:Biosis Previews(R)
 (c) 2002 BIOSIS. All rts. reserv.

11080383 BIOSIS NO.: 199799701528
***Acetal* *oligonucleotide* *conjugates* in antisense strategy.**
 AUTHOR: Matysiak S(a); Frank R; Pfleiderer W
 AUTHOR ADDRESS: (a)Natl. Res. Inst. Biotechnol., Dep. Molecular
 Recognition, Mascheroder Weg, D-38124 Braunschweig**Germany
 JOURNAL: Nucleosides & Nucleotides 16 (5-6):p855-861(1997)
 ISSN: 0732-8311
 RECORD TYPE: Abstract
 LANGUAGE: English

***Acetal* *oligonucleotide* *conjugates* in antisense strategy.**
 MISCELLANEOUS TERMS: ...*ACETAL* *OLIGONUCLEOTIDE* *CONJUGATES*;

4/3,K/2 (Item 1 from file: 399)
 DIALOG(R)File 399:CA SEARCH(R)
 (c) 2002 American Chemical Society. All rts. reserv.

104202002 CA: 104(23)202002d JOURNAL
N-Nitrosodiethanolamine is activated in the rat to an ultimate genotoxic metabolite by sulfotransferase
 AUTHOR(S): Sterzel, W.; Eisenbrand, G.
 LOCATION: Dep. Food Chem. Environ. Toxicol., Univ. Kaiserslautern, D-6750
 , Kaiserslautern, Fed. Rep. Ger.
 JOURNAL: J. Cancer Res. Clin. Oncol. DATE: 1986 VOLUME: 111 NUMBER: 1
 PAGES: 20-4 CODEN: JCROD7 ISSN: 0171-5216 LANGUAGE: English

4/3,K/3 (Item 1 from file: 315)
 DIALOG(R)File 315:ChemEng & Biotec Abs
 (c) 2002 DECHEMA. All rts. reserv.

400468 CEABA Accession No.: 27-12-024892 DOCUMENT TYPE: Journal
Title: Synthesis of poly[N-2,2 dimethoxyethyl)-N-methyl acrylamide] for the immobilization of oligonucleotides.
 AUTHOR: Delair, T. ; Veron, L. ; De Bignicourt, M.-C. ; Pichot, C. ;
 Mandrand, B.
 CORPORATE SOURCE: UMR 103 CNRS-bioMerieux 69364 Lyon France
 JOURNAL: J. Appl. Polym. Sci., Volume: 60, Issue: 2, Page(s): 235-244
 CODEN: JAPNAB ISSN: 00218995
 PUBLICATION DATE: 11 Apr 1996 (960411) LANGUAGE: English

ABSTRACT: The synthesis of *acetal* containing water soluble polymers for the immobilization of *oligonucleotides* is reported. The molecular weights of the polymers were determined and the Mark-Houwink-Sakurada relationship was established. The aldehyde moieties on the polymer were ...

... was analyzed. Covalent bonding of oligodeoxyribonucleotides was carried out in water/acetonitrile mixtures and followed by reduction of the imine bonds to stabilize the polymer/*oligonucleotide* *conjugates*.

4/3,K/4 (Item 1 from file: 357)
 DIALOG(R)File 357:Derwent Biotech Res.

(c) 2002 Thomson Derwent & ISI. All rts. reserv.

0200955 DBA Accession No.: 96-11726 PATENT

Inhibiting growth of tumor cells - vector-mediated antisense oligonucleotide or oligonucleotide analog expression for fibroblast growth factor receptor-1 gene inhibition and glioma or glioblastoma therapy

AUTHOR: Morrison R S; Tseng B Y; Brown B D

CORPORATE SOURCE: San Diego, CA, USA.

PATENT ASSIGNEE: Genta; Morrison R S 1996

PATENT NUMBER: WO 9621471 PATENT DATE: 960718 WPI ACCESSION NO.: 96-342063 (9634)

PRIORITY APPLIC. NO.: US 371001 APPLIC. DATE: 950110

NATIONAL APPLIC. NO.: WO 96US331 APPLIC. DATE: 960111

LANGUAGE: English

...ABSTRACT: contacted with tumor cells expressing FGFR1. (I) binds FGFR1 alpha exon pre-mRNA and has the disclosed DNA sequence. (I) is a DNA or RNA *oligonucleotide* or an *oligonucleotide* analog (2'-O-alkyl sugar modified, methylphosphonate, phosphorothioate, phosphorodithioate, *formacetal*, 3'-*thioformacetal*, sulfone, sulfamate, nitroxide backbone modified amide, base moiety modified, morpholino, peptide *nucleic* acid or chimeric *conjugate*). Also new are: (I) compositions for inhibiting glioma or glioblastoma cell growth; a vector for transfecting human tumor cells comprising antisense (I), which reduces expression...

... tumor cells; a method for suppressing tumor cell growth, which involves introducing (I) to tumor cells which express the FGFR1 gene; use of the antisense *oligonucleotide* at 0.01-50 uM; and a method for transfecting tumor cells with the vector. (71pp)

4/3,K/5 (Item 1 from file: 35)

DIALOG(R)File 35:Dissertation Abs Online

(c) 2002 ProQuest Info&Learning. All rts. reserv.

01530524 ORDER NO: AAD97-05422

STUDIES ON LIPID PEROXIDATION IN BRAIN, HEART AND LIVER DURING OXIDATIVE STRESS

Author: GUNNETT, CAROL A.

Degree: PH.D.

Year: 1996

Corporate Source/Institution: UNIVERSITY OF GEORGIA (0077)

Source: VOLUME 57/09-B OF DISSERTATION ABSTRACTS INTERNATIONAL.

PAGE 5590. 143 PAGES

...defenses. Oxidative free radicals are normal by products of oxidative metabolism and antioxidant defenses normally quench these free radicals before they damage lipids, proteins and *nucleic* acids. This dissertation describes the results and interpretation of three studies on lipid peroxidation and glutathione (GSH) status in brain, heart and liver during several...

...Dawley rats. Accelerated rates of lipid peroxidation and decreased cytosolic glutathione (a high (capacity antioxidant) status were measured as indices of oxidative stress. The glutathione-*conjugating* compound, 2-cyclohexene-1-one (CHX) was tested alone and during either ethanol or *acetaldehyde* intoxication for its ability to (1) deplete glutathione and (2) promote lipid peroxidation in brain, heart and liver. CHX, ethanol and *acetaldehyde* each reduced glutathione status. CHX was found to be an effective and rapid depletor of glutathione in brain, indicating it is a useful tool to...

...stress in most tissues; however, the degree of glutathione depletion per se was not consistently predictive of the degree of lipid peroxidation promoted by ethanol, *acetaldehyde* or CHX.

Peroxidation did not correlate well with decreased GSH. Ethanol

administered as anesthetic rapidly (within 15 min) produced lipid peroxidation in all three brain...

?

AUTHOR: Muehlegger K; von der Eltz H; Seela F; Rosemeyer H
CORPORATE SOURCE: Mannheim, Germany.
PATENT ASSIGNEE: Boehr.Mannheim 1996
PATENT NUMBER: WO 9628460 PATENT DATE: 960919 WPI ACCESSION NO.:
96-433756 (9643)
PRIORITY APPLIC. NO.: DE 1009038 APPLIC. DATE: 950314
NATIONAL APPLIC. NO.: WO 96EP1051 APPLIC. DATE: 960312
LANGUAGE: German

...ABSTRACT: thio or amino, COOH, alkyl, alkenyl, aryl, alkoxy, aryloxy, aralkyl, aralkoxy or label (fluorescence, luminescence, etc.), R5-6 = H, OH, optionally substituted thio or amino, *phosphoramidite*, H-phosphonate, cleavable ester or amide or label, R6-R7 may form a 2'-3' bond or *acetal*, R8 = H, OH or optionally substituted thio or amino, and R9 = H, mono-, di- or triphosphate, thiophosphate analog or a protecting group), or its tautomer...

2/3,K/4 (Item 3 from file: 357)
DIALOG(R)File 357:Derwent Biotech Res.
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0114221 DBA Accession No.: 91-01863

Fast oligonucleotide deprotection phosphoramidite chemistry for DNA synthesis - dialkylformamidine, isobutryl deprotection of cyanoethylphosphoramidite nucleoside

AUTHOR: Vu H; McCollum C; Jacobson K; Theisen P; Vinayak R; Spiess E
CORPORATE AFFILIATE: Appl.Biosystems
CORPORATE SOURCE: Applied Biosystems Inc., 850 Lincoln Centre Dr., Foster City, CA 94404, USA.
JOURNAL: Tetrahedron Lett. (31, 50, 7269-72) 1990
CODEN: TELEAY
LANGUAGE: English

ABSTRACT: Base protecting groups for *cyanoethylphosphoramidite* nucleosides and supports have been developed. Traditional purine amide protecting groups requiring 8-16 hr at 55 deg for deprotection in ammonia, have been replaced...

...a dimethylformamidine group. Oligonucleotides made with the new reagents required only 1 hr at 55 deg or 8 hr at RT for complete deprotection. Dialkylformamidine *phosphoramidites* exhibit enhanced resistance to depurination. N2-Dimethylformamidine-2'-deoxyguanosine was prepared by reacting 2'-deoxyguanosine with N,N-dimethylformamide dimethyl *acetal* in methanol. The product was tritylated with 4,4'-dimethoxytrityl chloride in pyridine. After recrystallization, 5'-dimethoxytrityl-N2-dimethylformamidine-2'-deoxyguanosine resulted as a white powder (yield 78%). Conversion to N2-dimethylformamidine-2'-deoxyguanosine-3'-diisopropylaminocyanoethyl *phosphoramidite* was effected by treatment with bis(diisopropylamino)cyanoethyl phosphine and diisopropylammonium tetrazolide. The deprotecting *phosphoramidites* may be applied to the production of quality oligonucleotides in high yield. (14 ref)

Set Items Description
S1 5 AMIDITE? (S) ACETAL?
S2 4 RD (unique items)
>>>KWIC option is not available in file(s): 41, 77, 399

2/3,K/1 (Item 1 from file: 98)
DIALOG(R)File 98:General Sci Abs/Full-Text
(c) 2002 The HW Wilson Co. All rts. reserv.

04010754 H.W. WILSON RECORD NUMBER: BGS199010754
Catalytic enantioselective annulations via 1,4-addition-aldol cyclization of functionalized organozinc reagents.
Naasz, Robert
Arnold, Leggy A; Pineschi, Mauro
Journal of the American Chemical Society (J Am Chem Soc) v. 121 no5 (Feb. 10 '99) p. 1104-5
SPECIAL FEATURES: bibl il ISSN: 0002-7863
LANGUAGE: English
COUNTRY OF PUBLICATION: United States

...ABSTRACT: in highly selective annulations of cyclic alkenones is reported. The treatment of a cyclohexenone at -30{degree}C with a functionalized diaklyzinc reagent containing an *acetal* group at C(4) in the presence of a catalyst prepared in situ from Cu(OTf)2 and a phosphorus *amidite* afforded the corresponding 4-substituted cyclohexanone in 91 percent yield and 98 percent ee. Treatment of a THF solution of this cyclohexanone with aqueous HCl at room temperature led to *acetal* hydrolysis and ring closure to give the corresponding decalone in 97 percent ee. This annulation methodology was also used to carry out catalytic enantioselective tandem...

2/3,K/2 (Item 1 from file: 357)
DIALOG(R)File 357:Derwent Biotech Res.
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0275421 DBA Accession No.: 2001-15628
Attachment of benzaldehyde-modified oligodeoxynucleotide probes to semicarbazide-coated glass - DNA synthesis and DNA probe immobilization on glass slide support matrix for DNA microarray construction, genotyping and single nucleotide polymorphism detection
AUTHOR: Podyminogin M A; Lukhtanov E A; +Reed M W
CORPORATE AFFILIATE: Epoch-Biosciences
CORPORATE SOURCE: Epoch Biosciences, 21720 23rd Drive SE 150, Bothell, EA 98021, USA. email:mreed@ epochbio.com
JOURNAL: Nucleic Acids Res. (29, 24, 5090-98) 2001
ISSN: 0305-1048 CODEN: NARHAD
LANGUAGE: English

...ABSTRACT: semicarbazide-coated glass for preparation of DNA microarrays was evaluated. All benzaldehyde-modified oligonucleotides used were synthesized on an ABI 394 DNA synthesizer using standard *phosphoramidite* chemistry with an *acetal*-protected benzaldehyde *phosphoramidite* reagent. Immobilization of oligonucleotides containing benzaldehyde groups was performed using semicarbazide-coated glass slides. The hydrophobic protecting group simplified purification of benzaldehyde-modified oligonucleotides by...

2/3,K/3 (Item 2 from file: 357)
DIALOG(R)File 357:Derwent Biotech Res.
(c) 2002 Thomson Derwent & ISI. All rts. reserv.

0203211 DBA Accession No.: 96-13982 PATENT
New chemically stable C-nucleoside derivatives for labeling nucleic acid - or DNA sequencing, oligonucleotide synthesis, DNA probe construction, etc.

?rd

...completed examining records

S8 14 RD (unique items)

?show files;ds;t/3,k/all

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File 6: NTIS 1964-2002/Sep W3
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File 40: Enviroline(R) 1975-2002/Jun

File 41: Pollution Abs 1970-2002/Sep
(c) 2002 Cambridge Scientific Abstracts

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(c) 2001 DECHEMA

File 35:Dissertation Abs Online 1861-2002/Aug
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(c) 2002 Sport Information Resource Centre
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2001 (c) Action Potential
File 149:TGG Health&Wellness DB(SM) 1976-2002/Sep W1
(c) 2002 The Gale Group
File 159:Cancerlit 1975-2002/Jul
(c) format only 2002 Dialog Corporation
File 164:Allied & Complementary Medicine 1984-2002/Sep
(c) 2002 BLHCIS
File 442:AMA Journals 1982-2002/Aug B1
(c)2002 Amer Med Assn -FARS/DARS apply
File 444:New England Journal of Med. 1985-2002/Sep W2
(c) 2002 Mass. Med. Soc.
File 467:ExtraMED(tm) 2000/Dec
(c) 2001 Informania Ltd.

Set	Items	Description
S1	2	POLYACETAL? (S) (NUCLEIC OR POLYNUCLEOTIDE? OR OLIGONUCLEO-TIDE?)
S2	2	RD (unique items)
S3	0	?HYDROXYMETHYLETHYLENE (W) HYDROXYMETHYLFORMAL?
S4	0	HYDROXYMETHYLENE HYDROXYMETHYLFORMAL
S5	2730	HYDROXYMETHYLENE
S6	0	S5 AND POLYACETAL?
S7	19	POLYACETAL? AND HYDROXYMETH?
S8	14	RD (unique items)

>>>KWIC option is not available in file(s): 41, 77, 399

Set	Items	Description
S1	2	POLYACETAL? (S) (NUCLEIC OR POLYNUCLEOTIDE? OR OLIGONUCLEOTIDE?)
S2	2	RD (unique items)
S3	0	?HYDROXYMETHYLETHYLENE (W) HYDROXYMETHYLFORMAL?
S4	0	HYDROXYMETHYLENE HYDROXYMETHYLFORMAL
S5	2730	HYDROXYMETHYLENE
S6	0	S5 AND POLYACETAL?
S7	19	POLYACETAL? AND HYDROXYMETH?
S8	14	RD (unique items)

>>>KWIC option is not available in file(s): 41, 77, 399

8/3,K/1 (Item 1 from file: 34)
 DIALOG(R)File 34:SciSearch(R) Cited Ref Sci
 (c) 2002 Inst for Sci Info. All rts. reserv.

07200884 Genuine Article#: 136BF No. References: 11
Title: Cationic polymerization of 1,3-dioxepane in the presence of 2,2-bis(*hydroxymethyl*)butanol
 Author(s): Pan CY (REPRINT) ; Liu Y; Liu W
 Corporate Source: UNIV SCI & TECHNOL CHINA, DEPT POLYMER SCI & ENGN/HEFEI 230026/ANHUI/PEOPLES R CHINA/ (REPRINT)
 Journal: JOURNAL OF POLYMER SCIENCE PART A-POLYMER CHEMISTRY, 1998, V36, N16 (NOV 30), P2899-2903
 ISSN: 0887-624X Publication date: 19981130
 Publisher: JOHN WILEY & SONS INC, 605 THIRD AVE, NEW YORK, NY 10158-0012
 Language: English Document Type: ARTICLE (ABSTRACT AVAILABLE)

Title: Cationic polymerization of 1,3-dioxepane in the presence of 2,2-bis(*hydroxymethyl*)butanol
 Abstract: Cationic polymerization of 1,3-dioxepane (DOP) initiated by triflic acid was carried out in the presence of 2,2-bis(*hydroxymethyl*)butanol (BHMB). The structure and molecular weight of the products were characterized by GPC and NMR spectra. The results showed that molecular weight of the *polyacetal* obtained could be controlled by the initial mole ratio of DOP/BHMB. GPC showed that as the mole ratio of BHMB/DOP increased, the content of cyclic oligomers also increased. Proton, C-13 and 2D HMQC-fg NMR demonstrated that no *hydroxymethyl* group of BHMB appeared as an end group. It was also illustrated by proton NMR that some BHMB units existed in cyclic oligomers. The mechanism...

8/3,K/2 (Item 2 from file: 34)
 DIALOG(R)File 34:SciSearch(R) Cited Ref Sci
 (c) 2002 Inst for Sci Info. All rts. reserv.

01005249 Genuine Article#: FM825 No. References: 0
Title: FUNCTIONALIZED *POLYACETALS* .2. COPOLYMERIZATION OF TRIOXANE WITH 5-ETHYL-5-*HYDROXYMETHYL*-1,3-DIOXANE
 Author(s): ZHENG YC; ZHANG CL; YANG NL; BROUSSARD J; AUERBACH A; PAUL J
 Corporate Source: CUNY COLL STATEN ISL/STATEN ISL//NY/10301; CUNY COLL STATEN ISL/STATEN ISL//NY/10301
 Journal: MAKROMOLEKULARE CHEMIE-MACROMOLECULAR SYMPOSIA, 1991, V42-3, MAR, P441-450
 Language: ENGLISH Document Type: ARTICLE (Abstract Available) (NO REFS KEYED)

Title: FUNCTIONALIZED *POLYACETALS* .2. COPOLYMERIZATION OF TRIOXANE WITH 5-ETHYL-5-*HYDROXYMETHYL*-1,3-DIOXANE
 Abstract: Cationic copolymerization of trioxane with 5-ethyl-5-*hydroxymethyl*-1,3-dioxane gives low-molecular-weight copolymer (MBAR(n): 2 approximately 6 x 10(3)) with methylol pendent as well as end groups. Detailed...

8/3,K/3 (Item 1 from file: 94)

DIALOG(R)File 94:JICST-EPlus
(c)2002 Japan Science and Tech Corp(JST). All rts. reserv.

02799874 JICST ACCESSION NUMBER: 96A0568807 FILE SEGMENT: JICST-E
Thermal stability improvement of *polyacetal* copolymer and its effects.
NIINO MASAHICO (1)
(1) Asahi Chem. Ind. Co., Ltd.
Gosei Jushi(Plastics), 1996, VOL.42,NO.6, PAGE.48-49, TBL.1, REF.5
JOURNAL NUMBER: F0005AAY ISSN NO: 0387-0936
UNIVERSAL DECIMAL CLASSIFICATION: 678.644
LANGUAGE: Japanese COUNTRY OF PUBLICATION: Japan
DOCUMENT TYPE: Journal
ARTICLE TYPE: Commentary
MEDIA TYPE: Printed Publication

Thermal stability improvement of *polyacetal* copolymer and its effects.

...
ABSTRACT: There are 2 types of *polyacetals*, one is a homopolymer of formaldehyde and the other is a copolymer. The copolymer has a better thermal stability. Techniques for further improvement of the stability are explained in terms of the thermal decomposition mechanisms. The decomposition mechanisms are thought as follows : 1) A zipper type decomposition of unstable *hydroxymethyl* terminals.2) Oxidation decomposition of main chains.3) Cutting of main chains by formic acid a decomposed product.4) Cutting of main chains occur over 270.DEG.C..And effective countermeasures for each mechanism are listed as follows : 1) Hydrolysis of the unstable *hydroxymethyl* terminals to stable hydroxyethyl terminals.2) Addition of amide-base hindered phenol antioxidants.3) Addition of nitrogen containing compounds such as polamides.

DESCRIPTORS: *polyacetal*;

8/3,K/4 (Item 1 from file: 399)
DIALOG(R)File 399:CA SEARCH(R)
(c) 2002 American Chemical Society. All rts. reserv.

133164482 CA: 133(12)164482z PATENT
Novel crystalline ion-association substance, process for producing the same, and polymerization initiator
INVENTOR(AUTHOR): Hiwasa, Shin
LOCATION: Japan,
ASSIGNEE: Autex, Inc.
PATENT: PCT International ; WO 200046171 A1 DATE: 20000810
APPLICATION: WO 2000JP518 (20000131) *JP 9924294 (19990201)
PAGES: 65 pp. CODEN: PIXXD2 LANGUAGE: Japanese CLASS: C07C-017/02A;
C07C-019/00B; C08F-004/603B; C08F-004/70B; C08G-085/00B; C07F-005/02B;
C07F-015/02B; C08G-059/68B DESIGNATED COUNTRIES: CA; US
DESIGNATED REGIONAL: AT; BE; CH; CY; DE; DK; ES; FI; FR; GB; GR; IE; IT;
LU; MC; NL; PT; SE

8/3,K/5 (Item 2 from file: 399)
DIALOG(R)File 399:CA SEARCH(R)
(c) 2002 American Chemical Society. All rts. reserv.

133106132 CA: 133(8)106132z PATENT
Curable fluoroelastomer compositions containing perfluoropolyether-polyoxymethylene lubricants
INVENTOR(AUTHOR): Strepparola, Ezio; Barbieri, Franco
LOCATION: Italy
ASSIGNEE: Ausimont S.p.A.
PATENT: European Pat. Appl. ; EP 1020490 A1 DATE: 20000719
APPLICATION: EP 99125619 (19991222) *IT 99MI49 (19990114)
PAGES: 12 pp. CODEN: EPXXDW LANGUAGE: English CLASS: C08K-005/06A;
C08K-005/00B; C08L-027/16B DESIGNATED COUNTRIES: AT; BE; CH; DE; DK; ES;
FR; GB; GR; IT; LI; LU; NL; SE; MC; PT; IE; SI; LT; LV; FI; RO

8/3,K/6 (Item 3 from file: 399)
DIALOG(R)File 399:CA SEARCH(R)
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118148220 CA: 118(16)148220x PATENT
Preparation of 1,3-dioxolane compounds as monomers
INVENTOR(AUTHOR): Sugiyama, Tomoki; Koto, Hiroyasu; Takeuchi, Koji
LOCATION: Japan,
ASSIGNEE: Ajinomoto Co., Inc.
PATENT: Japan Kokai Tokkyo Koho ; JP 92312582 A2 ; JP 04312582 DATE:
921104
APPLICATION: JP 91162000 (910408)
PAGES: 7 pp. CODEN: JKXXAF LANGUAGE: Japanese CLASS: C07D-317/24A;
B01J-023/04B; B01J-031/02B; B01J-031/08B; C07B-061/00; C08G-002/24

8/3,K/7 (Item 4 from file: 399)
DIALOG(R)File 399:CA SEARCH(R)
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115050534 CA: 115(6)50534r PATENT
Novel polyacetal copolymers of trioxane and trimethylolpropane formal derivatives
INVENTOR(AUTHOR): Broussard, Jerry A.; Yang, Nan L.; Auerbach, Andrew B.;
Paul, James L.; Zheng, Yong C.; Zhang, Chong L.
LOCATION: USA
ASSIGNEE: Hoechst Celanese Corp.
PATENT: European Pat. Appl. ; EP 397492 A2 DATE: 901114
APPLICATION: EP 90305038 (900510) *US 350799 (890512)
PAGES: 15 pp. CODEN: EPXXDW LANGUAGE: English CLASS: C08G-002/24A
DESIGNATED COUNTRIES: AT; BE; CH; DE; DK; ES; FR; GB; GR; IT; LI; LU; NL;
SE

8/3,K/8 (Item 5 from file: 399)
DIALOG(R)File 399:CA SEARCH(R)
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114144153 CA: 114(16)144153x JOURNAL
Functionalized polyacetal. 2. Copolymers of trioxane with acrylates of 5-ethyl-5-hydroxymethyl-1,3-dioxane
AUTHOR(S): Zheng, Y. C.; Zhang, C. L.; Yang, N. L.; Auerbach, A.;
Broussard, J.; Paul, J.
LOCATION: Coll. Staten Island, City Univ. New York, Staten Island, NY,
10301, USA
JOURNAL: Polym. Prepr. (Am. Chem. Soc., Div. Polym. Chem.) DATE: 1990
VOLUME: 31 NUMBER: 2 PAGES: 454-5 CODEN: ACPPAY ISSN: 0032-3934
LANGUAGE: English

8/3,K/9 (Item 6 from file: 399)
DIALOG(R)File 399:CA SEARCH(R)
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83059840 CA: 83(8)59840r PATENT
Polyacetals
LOCATION: USSR
ASSIGNEE: Institute of Chemical Physics, Chernogolovka; All-Union
Scientific-Research Institute of Synthetic Rubber; Karaganda Synthetic
Rubber Plant
PATENT: Netherlands Appl. NL 7408640 DATE: 741231
APPLICATION: USSR SU 1929172 DATE: 730628
PAGES: 27 pp. CODEN: NAXXAN CLASS: C08g

8/3,K/10 (Item 7 from file: 399)
DIALOG(R)File 399:CA SEARCH(R)

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77141568 CA: 77(22)141568t JOURNAL
New polyacetal, poly(ester-acetal), and their urethane-modified coatings
from hydroformylated linseed oil
AUTHOR(S): Khoe, T. H.; Gast, L. E.; Frankel, E. N.; Cowan, J. C.
LOCATION: North. Reg. Res. Lab., Peoria, Ill.
JOURNAL: Paintindia DATE: 1972 VOLUME: 22 NUMBER: 7 PAGES: 17-20
CODEN: PANTAH LANGUAGE: English

8/3,K/11 (Item 8 from file: 399)
DIALOG(R)File 399:CA SEARCH(R)
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74077982 CA: 74(16)77982g PATENT
Solid propellant composition with a polymeric binder containing ammonium
perchlorate and aluminum
INVENTOR(AUTHOR): Sayles, David C.
ASSIGNEE: United States Dept. of the Army
PATENT: United States US 3551225 DATE: 701229
APPLICATION: United States DATE: 681210
PAGES: 3 pp. Division of U.S. 3,506,713 CODEN: USXXAM CLASS: 149-19; C
06b

8/3,K/12 (Item 9 from file: 399)
DIALOG(R)File 399:CA SEARCH(R)
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66056155 CA: 66(14)56155j PATENT
Polyacetal terpolymers with random groups derived from a
methylenebis(4-hydroxymethyl-1,3-dioxolane)
INVENTOR(AUTHOR): Gottesman, Roy T.; Sidi, Henri; Barth, Robert H.
ASSIGNEE: Tenneco Chemicals, Inc.
PATENT: United States US 3293219 DATE: 661220
APPLICATION: United States DATE: 630710
PAGES: 4 pp. CODEN: USXXAM CLASS: 260-67

8/3,K/13 (Item 1 from file: 266)
DIALOG(R)File 266:FEDRIP
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00363681
IDENTIFYING NO.: 5R21RR14221-02 AGENCY CODE: CRISP
BIODEGRADABLE HYDROPHILIC *POLYACETALS*
PRINCIPAL INVESTIGATOR: PAPISOV, MIKHAIL I
ADDRESS: MASSACHUSETTS GENERAL HOSPITAL 55 FRUIT STREET BOSTON, MA
02114-2696
PERFORMING ORG.: MASSACHUSETTS GENERAL HOSPITAL, BOSTON, MASSACHUSETTS
SPONSORING ORG.: NATIONAL CENTER FOR RESEARCH RESOURCES
FY : 2001

BIODEGRADABLE HYDROPHILIC *POLYACETALS*
...SUMMARY: the surrounding carbons, whereas the potentially bior
recognizable structures formed by C1-C2-C3-C4 must be absent. Experimental
sample s of a lead biomimetic *polyacetal*, (poly[hydrohymethylethylene
hydroxymethylform al]) (PHF), demonstrated excellent biocompatibility,
extremely low toxicity and negligible interactions in vivo in a sensitive
graft copolymer circulation test. The objective of this research is
two-fold: (1) to further test the hypothesis of general bio- inertness of
hydrophilic *polyacetals*; and (2) to initiate trans lation of the concept
into a new biomedical technology on the basis of PHF. The expected outcome
of this study includes: new knowledge on interaction of hydroph ilic
polyacetals with biological systems; new technologies for producing
advance d materials for bioengineering, pharmacology, and biomedical
research; new molec ular tools for biomedical research; and a...

8/3,K/14 (Item 1 from file: 35)
DIALOG(R)File 35:Dissertation Abs Online
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01404324 ORDER NO: AADAA-I9510745

ACETAL COPOLYMERS: SYNTHESSES AND MODIFICATION

Author: ZHENG, YONGCHANG

Degree: PH.D.

Year: 1994

Corporate Source/Institution: CITY UNIVERSITY OF NEW YORK (0046)

Source: VOLUME 55/11-B OF DISSERTATION ABSTRACTS INTERNATIONAL.

PAGE 4877. 192 PAGES

...5-ethyl-5-hydroxy-methyl-1,3-dioxane and its acrylate ester were synthesized and copolymerized with trioxane. Copolymerization of trioxane with 5-ethyl-5-*hydroxymethyl*-1,3-dioxane is characterized by substantial chain transfer. The resulting copolymers are of low molecular weight (3-6 $\times 10^3$) but thermally stable. The pendant hydroxyl functional groups have been demonstrated to be reactive for further modification. Copolymerization of trioxane with acrylates of 5-ethyl-5-*hydroxymethyl*-1,3-dioxane gives a thermally stable copolymer with molecular weight up to 60×10^3 . The structures of these copolymers were studied in detail ...

...trioxane with glycerol formal benzoate or glycerol formal acetate can be hydrolyzed in NaOH suspension to obtain high molecular weight acetal copolymer with hydroxyl groups.

Polyacetals with backbone and pendant epoxy functional groups were synthesized through the epoxidation of acetal copolymer with backbone or pendant double bond. The reactivity of backbone...
?